

p108-109 3-7, 9, 21-25

3. $3x - 12 = 7x + 8$

Given

$-4x - 12 = 8$

Subtraction

$-4x = 20$

Addition

$x = -5$

Division

4. $5(x - 1) = 4x + 13$

Given

$5x - 5 = 4x + 13$

Distributive

$x - 5 = 13$

Subtraction

$x = 18$

Addition

5. D transition

6. $5x - 10 = -40$

Given

$5x = -30$

Addition

~~5x~~ $x = -6$

DIVISION

7. $4x + 9 = 16 - 3x$

GIVEN

$7x + 9 = 16$

Addition

$7x = 7$

Subtr

$x = 1$

Division

9. $3(2x + 11) = 9$

GIVEN

$2x + 11 = 3$

DIVISION

$2x = -8$

SUBTR

$x = -4$

Div

21. $AB=20$ then $AB+CD = \underline{20+CD}$ Subst

22. If $m\angle 1 = m\angle 2$, then $\underline{m\angle 2 = m\angle 1}$ Sym

23. If $AB=CD$ then $\underline{AB+EF = CD+EF}$ Add

24. If $5(x+8)=2$ then $\underline{5x+40=2}$ Dist

25. If $m\angle 1 = m\angle 2$ * $m\angle 2 = m\angle 3$ then $\underline{m\angle 1 = m\angle 3}$ trans.